Franco Ramirez

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4401070/publications.pdf

Version: 2024-02-01

83 papers	736 citations	687220 13 h-index	610775 24 g-index
83 all docs	83 docs citations	83 times ranked	329 citing authors

#	Article	IF	Citations
1	Analysis of Near-Carrier Phase-Noise Spectrum in Free-Running Oscillators in the Presence of White and Colored Noise Sources. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 587-601.	2.9	72
2	Nonlinear analysis tools for the optimized design of harmonic-injection dividers. IEEE Transactions on Microwave Theory and Techniques, 2003, 51, 1752-1762.	2.9	61
3	Phase-Noise Analysis of Injection-Locked Oscillators and Analog Frequency Dividers. IEEE Transactions on Microwave Theory and Techniques, 2008, 56, 393-407.	2.9	58
4	Stability and Noise Analysis of Coupled-Oscillator Systems. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 1032-1046.	2.9	37
5	Nonlinear optimization tools for the design of high-efficiency microwave oscillators. IEEE Microwave and Wireless Components Letters, 2004, 14, 189-191.	2.0	28
6	Phase and Amplitude Noise Analysis in Microwave Oscillators Using Nodal Harmonic Balance. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 1568-1583.	2.9	28
7	Harmonic-balance analysis and synthesis of coupled-oscillator arrays. IEEE Microwave and Wireless Components Letters, 2004, 14, 192-194.	2.0	25
8	Stability and Bifurcation Analysis of Self-Oscillating Quasi-Periodic Regimes. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 528-541.	2.9	25
9	Stability Analysis of Oscillation Modes in Quadruple-Push and Rucker's Oscillators. IEEE Transactions on Microwave Theory and Techniques, 2008, 56, 2648-2661.	2.9	23
10	Analysis of stabilization circuits for phase-noise reduction in microwave oscillators. IEEE Transactions on Microwave Theory and Techniques, 2005, 53, 2743-2751.	2.9	22
11	Stability Analysis of Power Amplifiers Under Output Mismatch Effects. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 2273-2289.	2.9	18
12	General Formulation for the Analysis of Injection-Locked Coupled-Oscillator Systems. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 4730-4744.	2.9	15
13	General stabilization techniques for microwave oscillators. IEEE Microwave and Wireless Components Letters, 2005, 15, 868-870.	2.0	14
14	Harmonic-balance techniques for the design of coupled-oscillator systems in both unforced and injection-locked operation. , 2005, , .		14
15	Analysis and reduction of the oscillator phase noise from the variance of the phase deviations, determined with harmonic balance. , 2008, , .		13
16	Optimized Design of Pulsed Waveform Oscillators and Frequency Dividers. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 3428-3440.	2.9	13
17	Pole-Zero Identification: Unveiling the Critical Dynamics of Microwave Circuits Beyond Stability Analysis. IEEE Microwave Magazine, 2019, 20, 36-54.	0.7	13
18	Two-Level Stability Analysis of Complex Circuits. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 132-146.	2.9	13

#	Article	IF	Citations
19	Generalized Stability Criteria for Power Amplifiers Under Mismatch Effects. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 4415-4428.	2.9	11
20	Harmonic-balance technique for the shortening of the initial transient of microwave oscillators. , 2005, , .		10
21	Nonlinear analysis and design of frequency selective limiters based on parametric circuits. , 2008, , .		10
22	Stability Analysis of Nonlinear Circuits Driven With Modulated Signals. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 929-940.	2.9	10
23	Analysis of Oscillation Modes in Free-Running Ring Oscillators. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 3137-3150.	2.9	10
24	General Phase-Noise Analysis From the Variance of the Phase Deviation. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 472-481.	2.9	10
25	Stochastic Analysis of Cycle Slips in Injection-Locked Oscillators and Analog Frequency Dividers. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 3318-3332.	2.9	10
26	Stability and Bifurcation Analysis of Multi-Element Non-Foster Networks. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 1817-1830.	2.9	10
27	Two-Scale Envelope-Domain Analysis of Injected Chirped Oscillators. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 5449-5461.	2.9	10
28	Oscillation Modes in Multiresonant Oscillator Circuits. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 4660-4675.	2.9	9
29	Applications of Pulsed-Waveform Oscillators in Different Operation Regimes. IEEE Transactions on Microwave Theory and Techniques, 2009, 57, 3362-3372.	2.9	7
30	Analytical and Numerical Bifurcation Analysis of Circuits Based on Nonlinear Resonators. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 4392-4405.	2.9	7
31	Analysis of Injection Pulling in Phase-Locked Loops With a New Modeling Technique. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 1200-1214.	2.9	6
32	Stability and Phase-Noise Analysis of Pulsed Injection-Locked Oscillators. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 482-491.	2.9	6
33	Analysis and Synthesis of Hysteresis Loops in an Oscillator Frequency Characteristic. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 4890-4904.	2.9	6
34	Nonlinear Analysis of a High-Power Oscillator Inductively Coupled to an External Resonator. IEEE Microwave and Wireless Components Letters, 2021, 31, 737-740.	2.0	6
35	Harmonic-balance design and analysis of an injection-locked push-push oscillator. , 2008, , .		5
36	Stability analysis of power amplifiers. , 2009, , .		5

#	Article	IF	Citations
37	Stability analysis of power amplifiers under mismatching effects. , 2013, , .		5
38	Global Stability Analysis of Coupled-Oscillator Systems. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 165-180.	2.9	5
39	Growth-rate function for the nonlinear analysis of the transient dynamics of microwave oscillators. , 2016, , .		5
40	Nonlinear-optimization techniques for quadruple-push oscillators. , 2007, , .		4
41	Frequency Demodulator Using an Injection-Locked Oscillator: Analysis and Design. IEEE Microwave and Wireless Components Letters, 2008, 18, 43-45.	2.0	4
42	Analysis and design of soliton oscillators using harmonic balance. , 2009, , .		4
43	Nonlinear analysis of pulsed injection-locked oscillators. , 2012, , .		4
44	Experimental Characterization of Oscillator Circuits for Reduced-Order Models. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 3527-3541.	2.9	4
45	Oscillation Modes in Free-Running Oscillators Loaded with Multi-Resonant Networks. , 2016, , .		4
46	Analysis of Chirped Oscillators Under Injection Signals. , 2018, , .		4
47	Analysis of the Transient Dynamics of Microwave Oscillators. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 3562-3574.	2.9	4
48	Oscillator Stabilization Through Feedback With Slow Wave Structures. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 2358-2373.	2.9	4
49	Nonlinear Analysis of an Injection-Locked Oscillator Coupled to an External Resonator. IEEE Microwave and Wireless Components Letters, 2022, 32, 740-743.	2.0	4
50	Stabilization Techniques for Frequency Dividers. , 2006, , .		3
51	Nonlinear-optimization techniques for quadruple-push oscillators. , 2007, , .		3
52	A Broadband Double-Balanced Phase-Coherent Degenerate Parametric Amplifier. IEEE Microwave and Wireless Components Letters, 2011, 21, 607-609.	2.0	3
53	Nonlinear Dynamics of an Oscillator Inductively Coupled to an External Resonator for Power Transfer and Data Transmission. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 2418-2431.	2.9	3
54	Optimized design of pulsed waveform oscillators. , 2011, , .		2

#	Article	IF	Citations
55	In-depth stability analysis of degenerate parametric amplifiers. , 2012, , .		2
56	Explicit formulation for injection-locked coupled-oscillator systems. , 2013, , .		2
57	Coupled-oscillator systems: Efficient simulation with harmonic-balance based oscillator models. , 2014, , .		2
58	Stability criteria for power amplifiers under mismatch effects. , 2015, , .		2
59	Prediction of odd-mode instabilities under output mismatch effects. International Journal of Microwave and Wireless Technologies, 2017, 9, 1305-1315.	1.5	2
60	Circuit-level stability and bifurcation analysis of non-foster circuits. , 2017, , .		2
61	New methodologies for the analysis and synthesis of oscillator circuits. , 2018, , .		2
62	Coupling-induced hysteresis in free-running oscillators. , 2019, , .		2
63	Nonlinear Analysis of Oscillator Mutual Injection Locking Through Inductor Coupling. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 812-824.	2.9	2
64	Stability and Oscillation Analysis at Circuit Level and Through Semi-Analytical Formulations. IEEE Journal of Microwaves, 2021, 1, 763-776.	4.9	2
65	Pulsed-waveform oscillators with short nonlinear transmission lines. , 2012, , .		1
66	General phase-noise analysis from the variance of the phase deviation. , 2012, , .		1
67	Nonlinear analysis of cycle slips in injection-locked oscillators. , 2014, , .		1
68	Coupled-oscillator system with two stable phase-shift intervals. , 2015, , .		1
69	Advances in the simulation of autonomous microwave circuits. , 2016, , .		1
70	Analysis of the Transient Dynamics of Coupled-Oscillator Systems. , 2020, , .		1
71	Envelope Domain Formulation for the Analysis of the Nonlinear Transient Dynamics of Coupled Oscillators. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 566-577.	2.9	1
72	Analysis and Synthesis of a Bipolar-based Circuit with Stochastic Resonance. IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium, 2007, , .	0.0	0

#	Article	IF	Citations
73	Software tool for the understanding of parametric oscillations. , 2009, , .		0
74	Stochastic characterization of the phase noise spectrum of coupled-oscillator circuits. , 2010, , .		0
75	Design of pulsed waveform oscillators with a short nonlinear transmission line. , 2010, , .		0
76	Stability analysis of nonlinear circuits driven with modulated signals. , 2011, , .		0
77	In-depth bifurcation analysis of nonlinear microwave circuits. , 2013, , .		0
78	Subharmonically injection-locked oscillator using a nonlinear transmission line. , 2014, , .		0
79	Optimized design of harmonic-injection dividers. , 2014, , .		0
80	Coupled-oscillator system with two stable phase-shift intervals. , 2015, , .		0
81	Prediction of odd-mode instabilities under output mismatch effects. , 2016, , .		0
82	Analysis of Output Loading Effects in Autonomous Circuits. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 3135-3146.	2.9	0
83	Analysis of Inductively Injection Locked Oscillators at an Integer Frequency Ratio. , 2022, , .		0